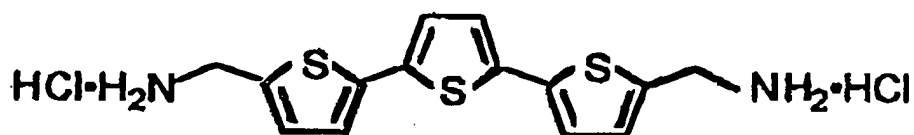


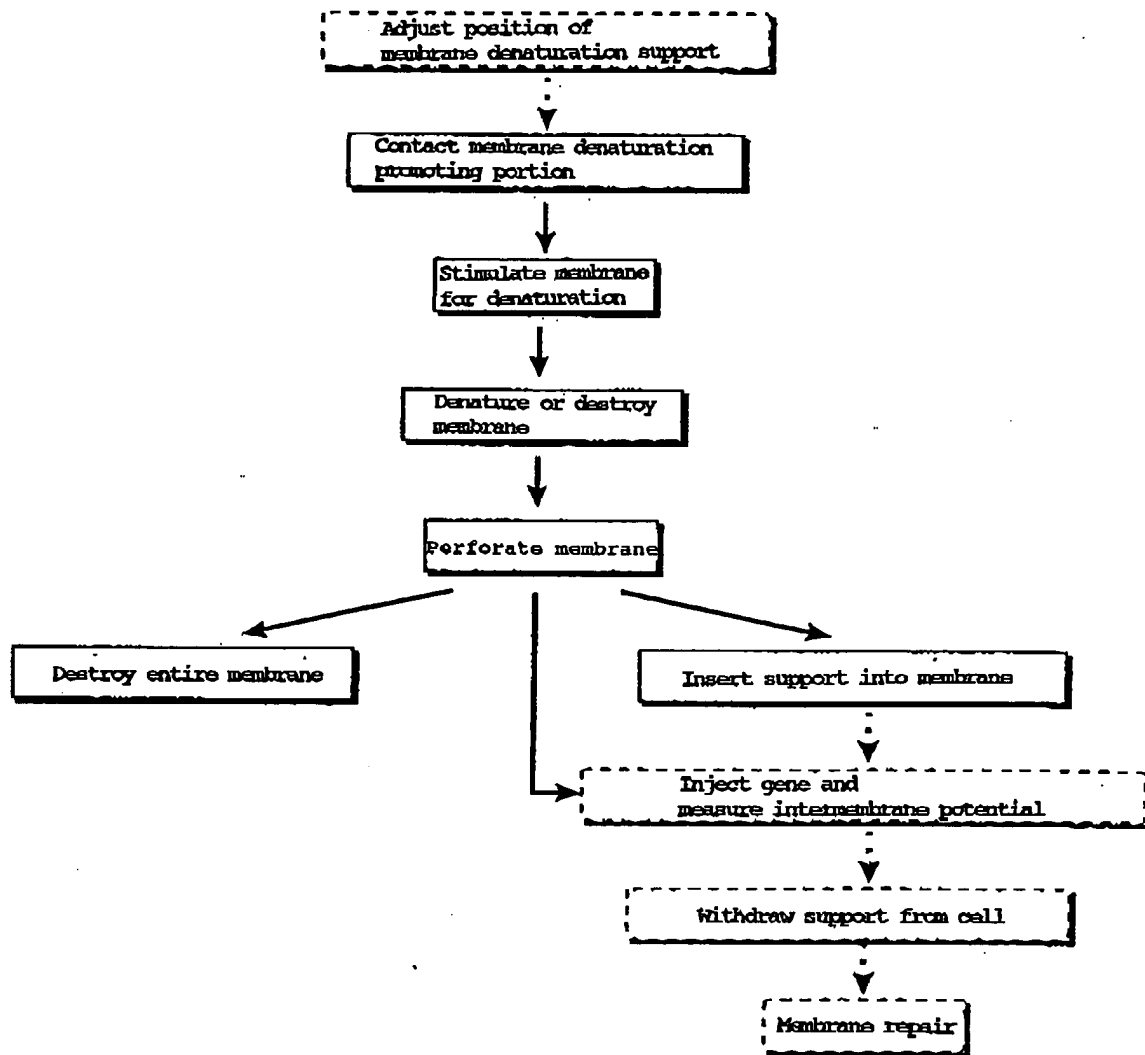
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Figure 1



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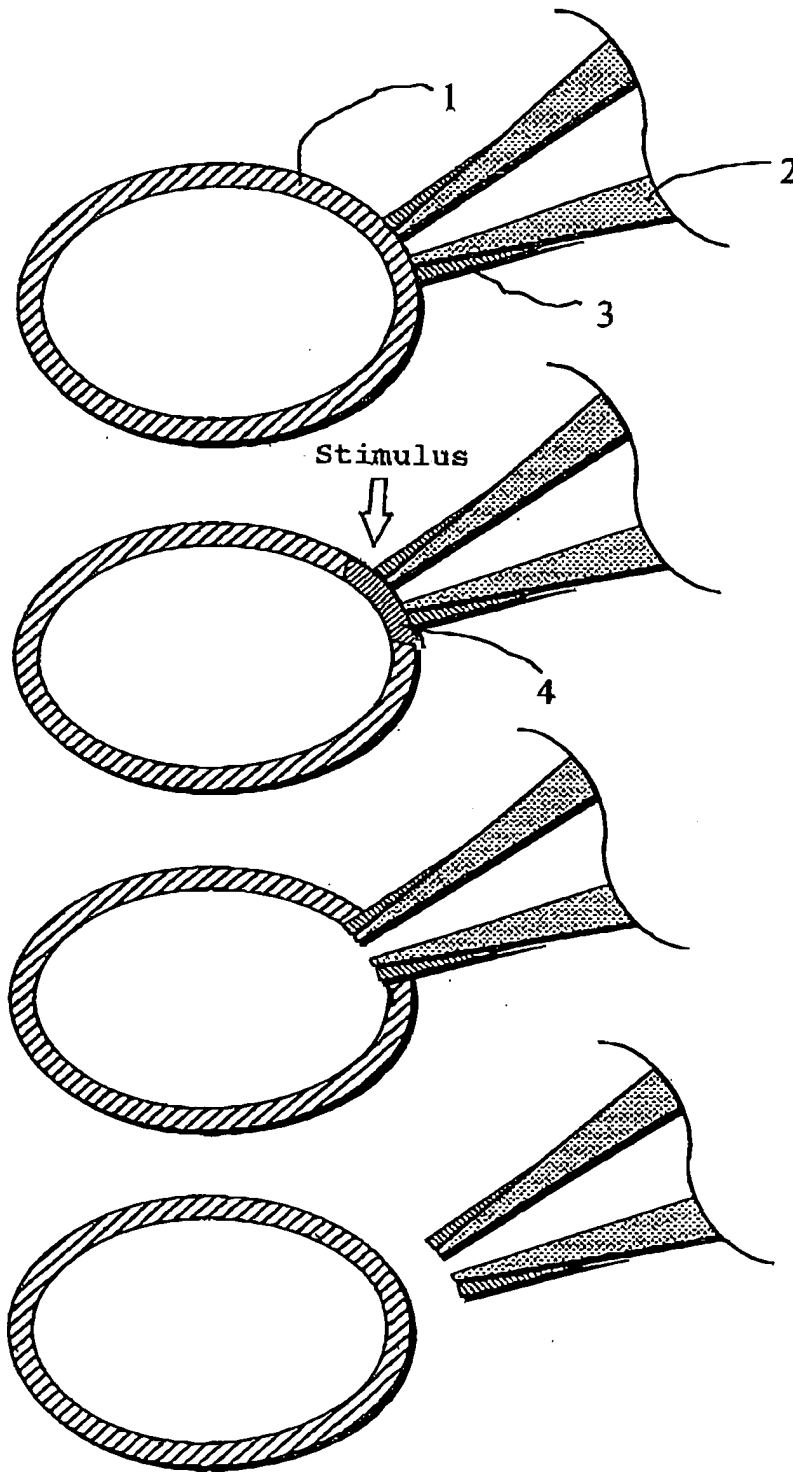
Figure 2



Flow chart of membrane perforation technique

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Figure 3



1 Membrane structure

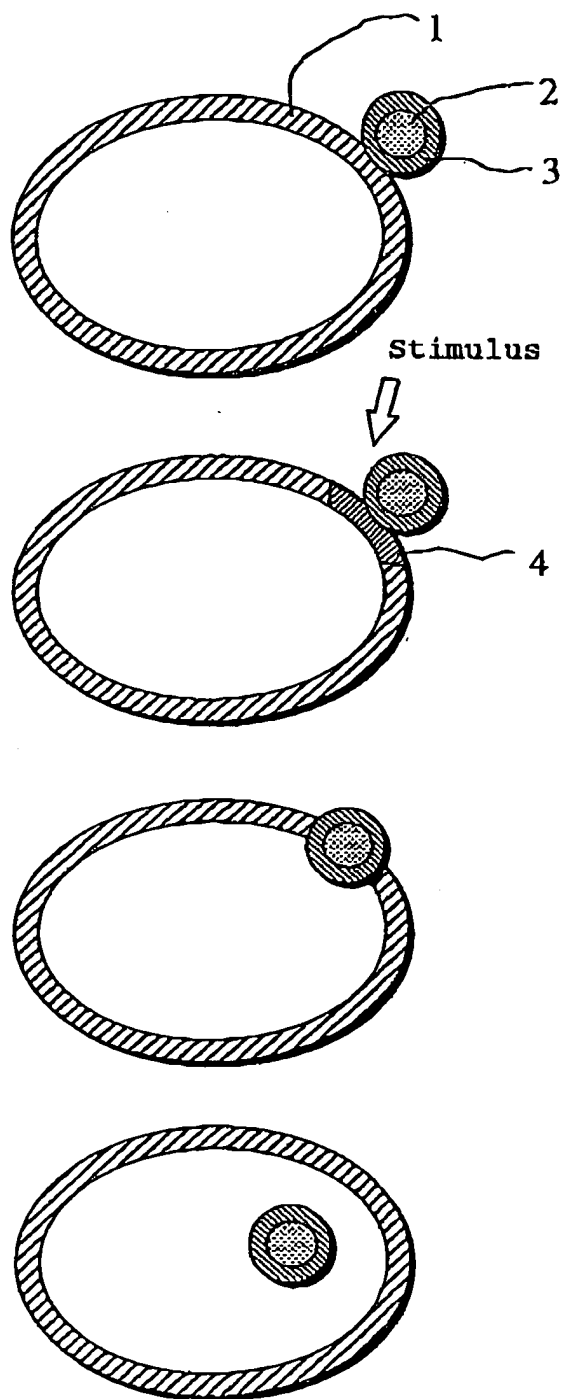
2 Support

3 Membrane denaturation promoting portion

4 Denatured portion of membrane

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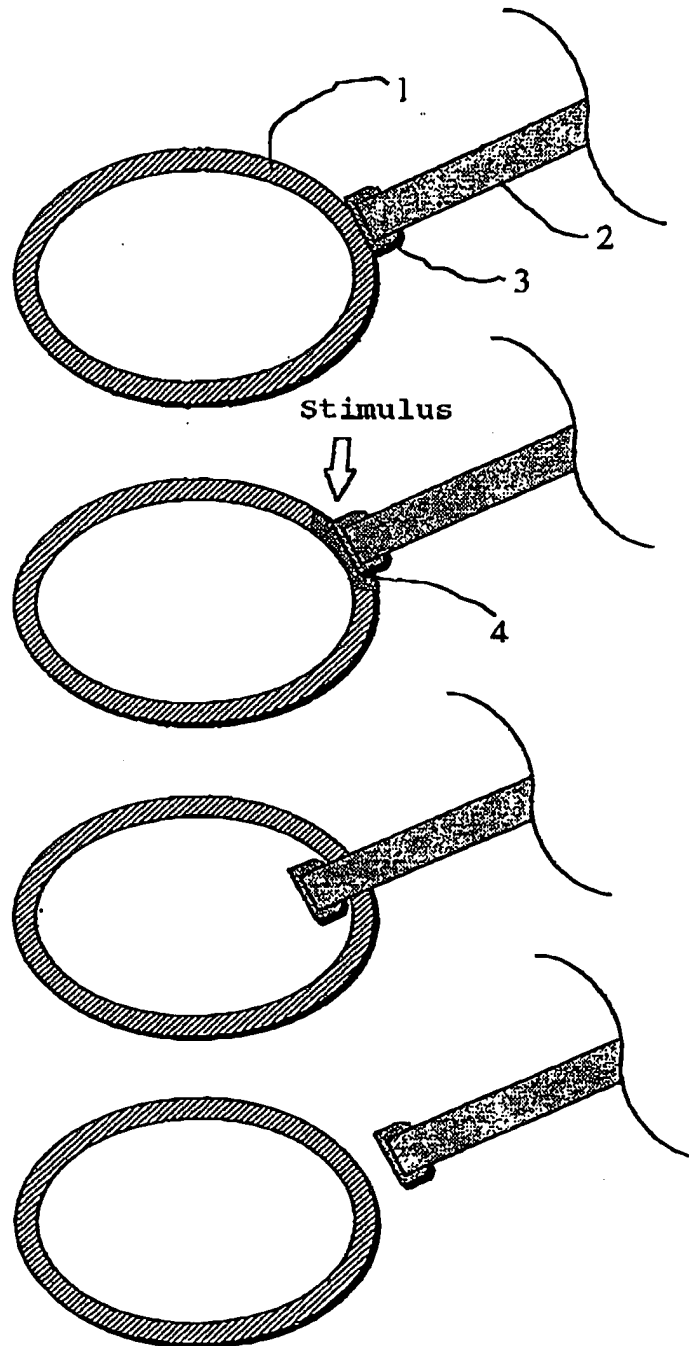
Figure 4



- 1 Membrane structure
- 2 Support
- 3 Membrane denaturation promoting portion
- 4 Denatured portion of membrane

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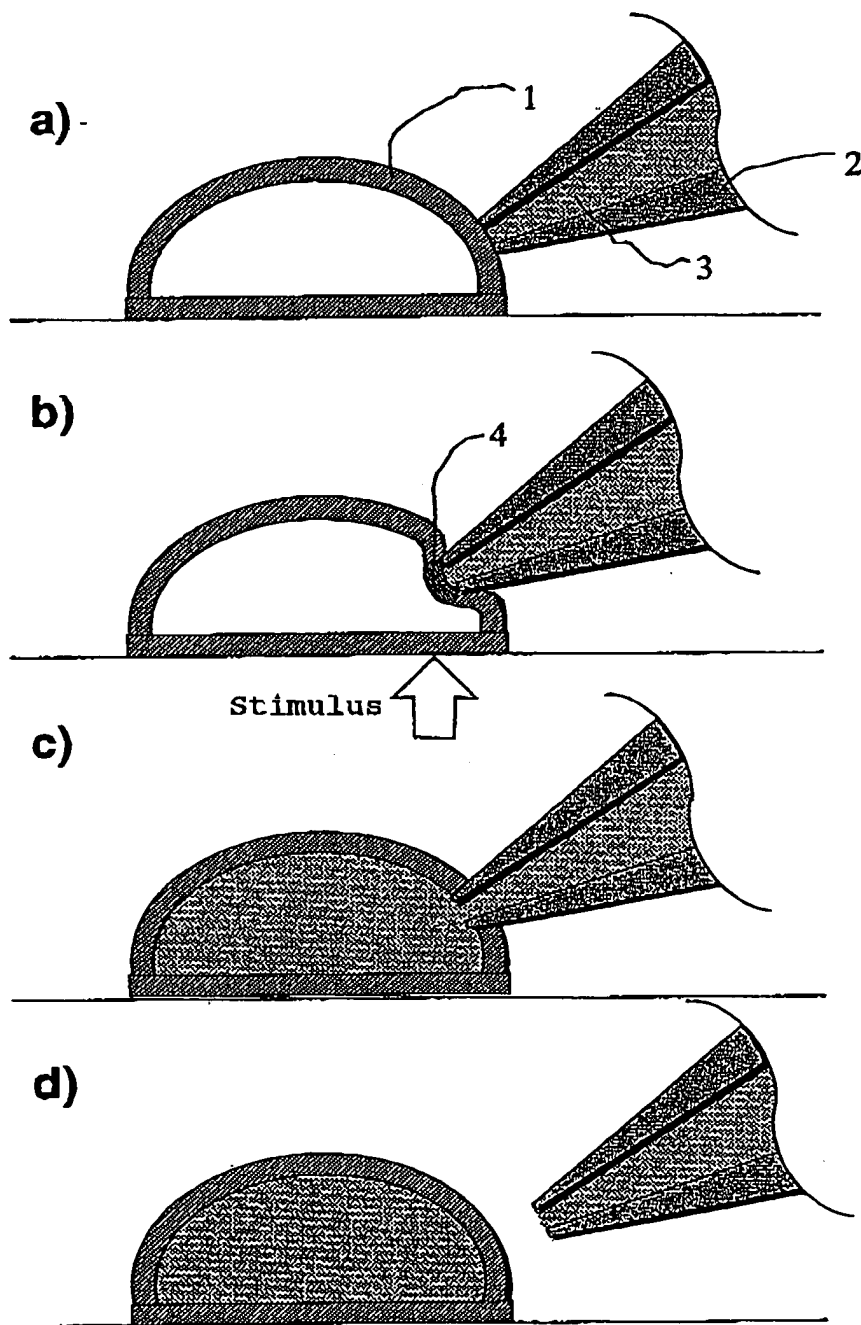
Figure 5



- 1 Membrane structure
- 2 Support
- 3 Membrane denaturation promoting portion
- 4 Denatured portion of membrane

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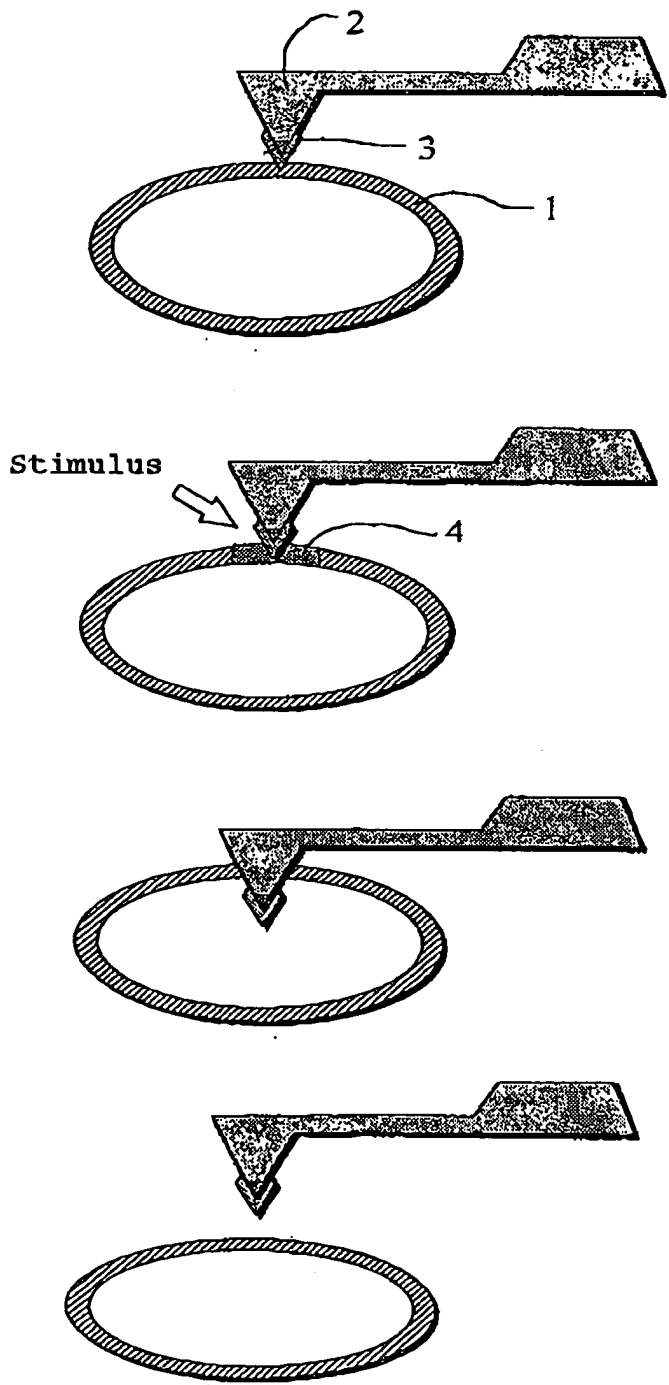
Figure 6



- 1 Membrane structure
- 2 Support
- 3 Liquid containing membrane denaturation promoter
- 4 Denatured portion of membrane

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Figure 7



- 1 Membrane structure
- 2 Support
- 3 Membrane denaturation promoting portion
- 4 Denatured portion of membrane

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Figure 8

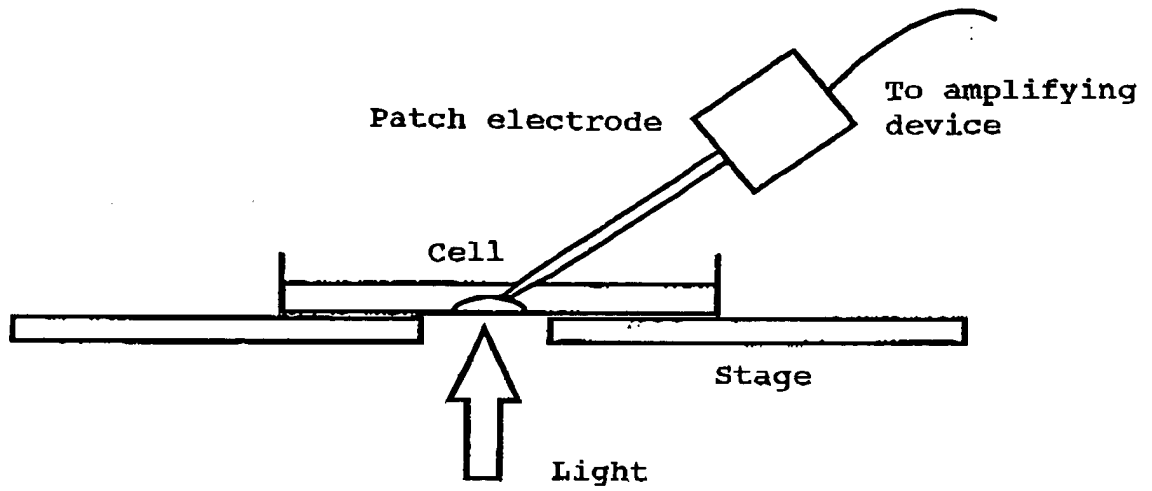
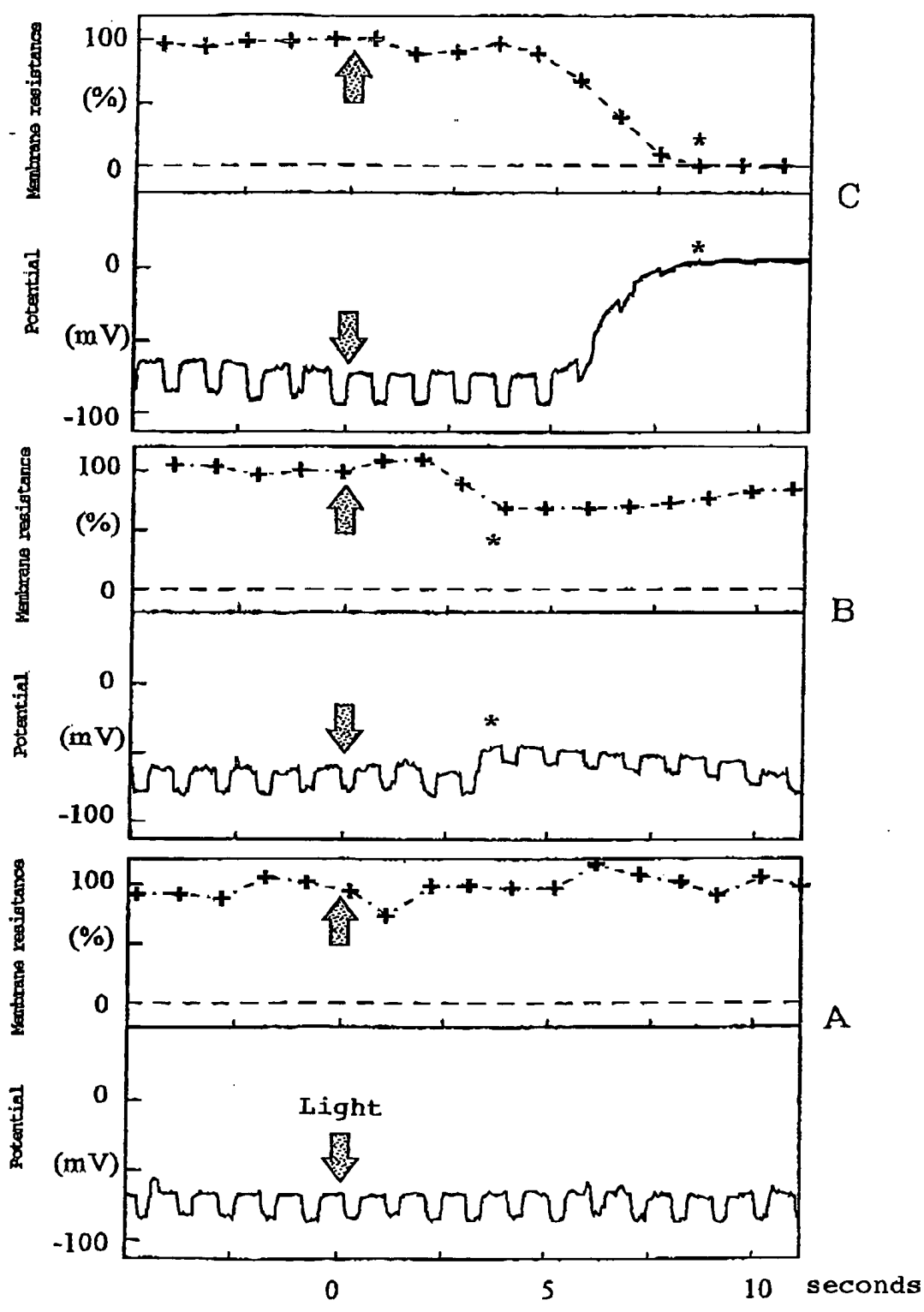
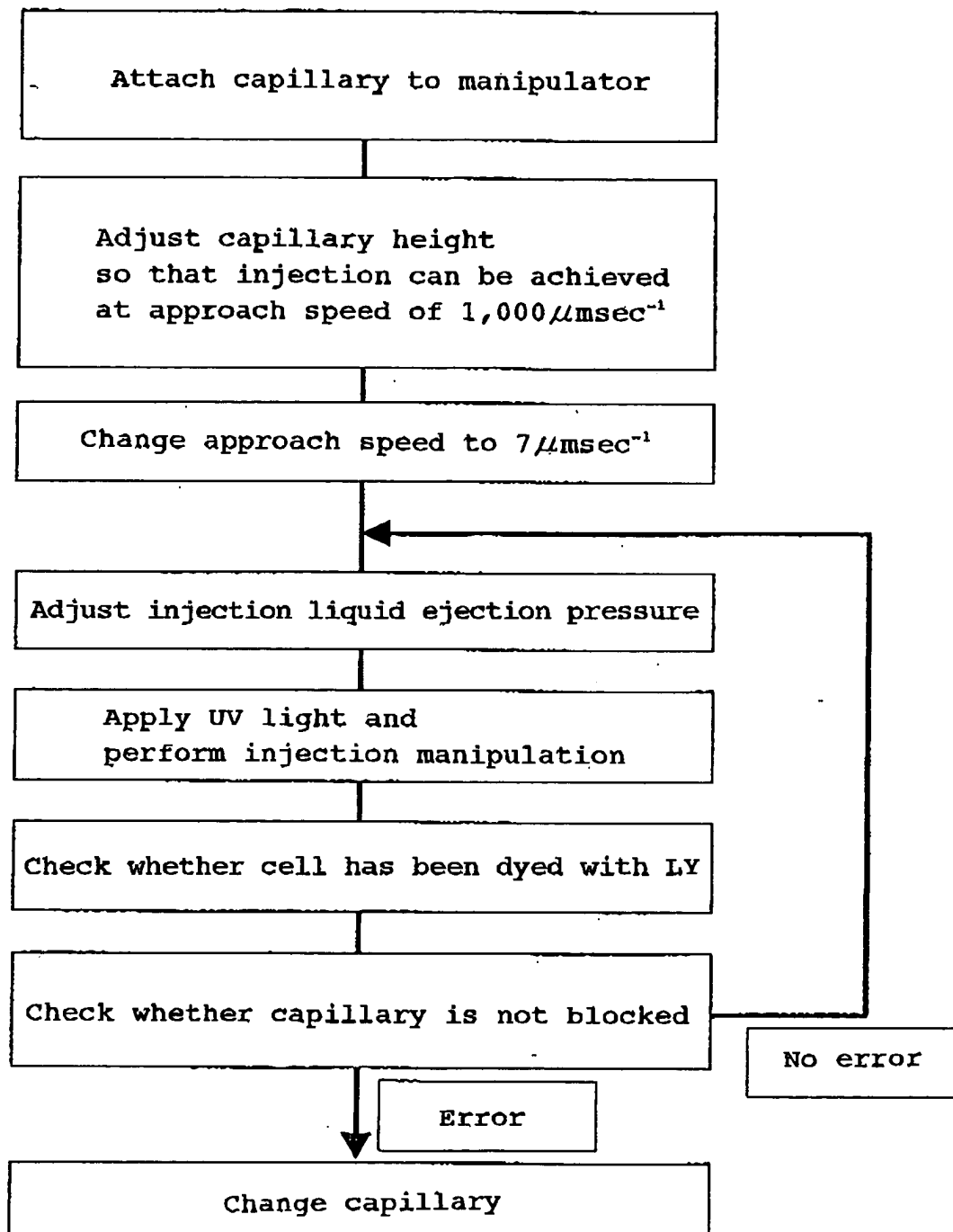


Figure 9



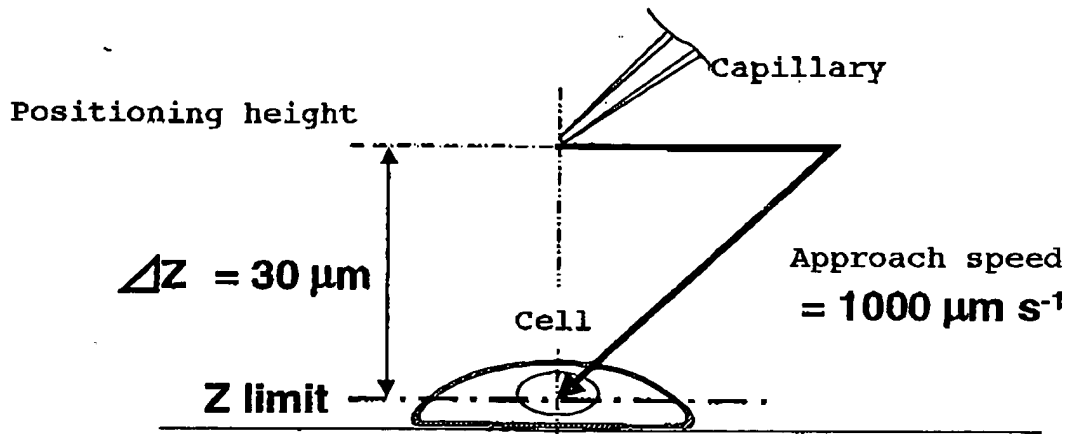
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Figure 10

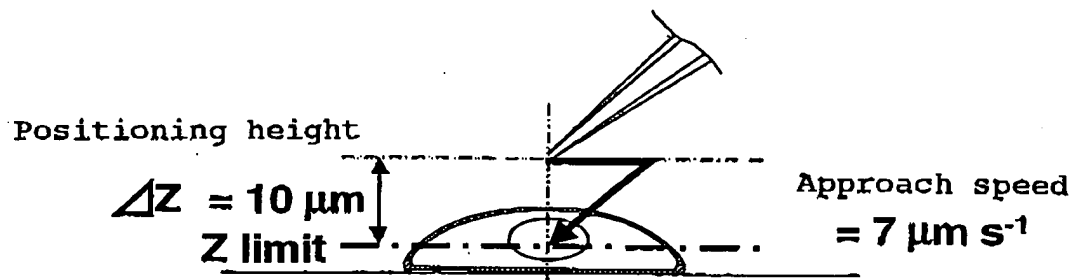


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Figure 11



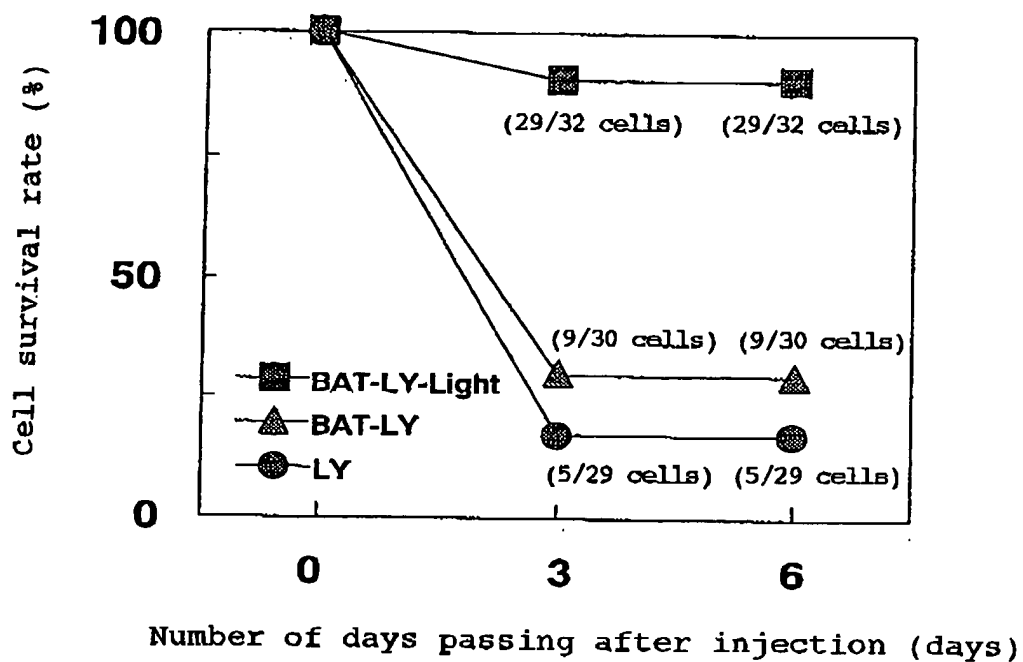
1) Execute normal microinjection to check whether Z limit has been appropriately set



2) Change settings such that approach is made at speed at which insertion is difficult, and evaluate effects of photosensitizing on injection efficiency

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Figure 12



BAT-LY-Light: LY+BAT containing liquid; photosensitizing injection; attempted on 32 cells
 BAT-LY: LY+BAT containing liquid; normal injection; attempted on 30 cells
 LY: LY containing liquid; normal injection; attempted on 29 cells

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Figure 13

